IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended) A system for reading a magnetic medium having several tracks of data which can be read in parallel, and comprising a detection device having at least as many detectors as there are tracks, making it possible to read simultaneously and at regular intervals a sample of data on each track, said detection device having a parallel/ series shift register receiving in parallel the samples of data read by the detectors at each read time and retransmitting them in series form, eharacterized in that it comprises the system comprising:

[[•]] a processing circuit configured to receive the (M1) receiving each sample of data (x_i) to be processed from each track, together with the <u>a</u> sample [[$(x_{(i-1)})$]] of <u>data</u> from a first adjacent track and the <u>a</u> sample [[$(x_{(i+1)})$]] of <u>data from</u> a second adjacent track, and <u>to calculate a calculating the cross-talk affecting the sample of data to be processed due to the adjacent tracks;</u>

[[•]] an integration circuit (II) receiving configured to receive and integrate the cross-talk value thus calculated, integrating said values obtained at each read time, then integrating the values obtained at following and at subsequent read times; and

[[•]] a relative track-following control circuit (CR) receiving the configured to receive a result of integration of the integrator circuit (II) and supplying to supply a track-following control signal for the detection device [[.]] , wherein said processing circuit comprising comprises means making it possible to multiply for multiplying the value of the sample to be processed [[:]] [[-]] by +1 when the sample of the first adjacent track is negative and the sample of the second adjacent track is positive, [[;]] [[-]] by -1 when the sample of the first adjacent track is positive and the sample of the second

adjacent track is negative [[;]], or [[-]] by 0 when the samples of the adjacent tracks are of the same sign.

Claim 2 (Currently Amended) The system as claimed in claim 1, characterized in that wherein the data medium is read using a light beam which is transmitted to the detection device after reading the data medium, and in that the relative track-following control circuit (CR) makes it possible is configured to control a device for deflecting the light beam depending on the position of the detection device.

Claim 3 (Currently Amended) The system as claimed in claim 1, characterized in that wherein the detection device comprises a greater number of detectors than there are tracks to read and in that it the detection device further comprises:

- [[-]] an absolute position detection circuit <u>configured</u> (CTA) making it possible to identify the track read by each detector of the detection device; <u>and</u>
- [[-]] a central control circuit <u>configured to control</u> (CC) <u>controlling</u> the operation of said processing circuit (M1), of said integration circuit, (I1) and of said relative trackfollowing control circuit (CR), then of <u>and</u> the absolute position detection circuit.

Claim 4 (Currently Amended) The system as claimed in claim 3, <u>further</u> comprising:

characterized in that it comprises means for identifying, in the date reach by each detector, one or more track identity data items.

Claim 5 (Currently Amended) The system as claimed in claim 4, wherein characterized in that the tracks of the data medium comprise preamble zones containing said identification data.

Claim 6 (Currently Amended) The system as claimed in claim 5, wherein characterized in that the preamble zones of the various tracks can be read simultaneously.

Claim 7 (Currently Amended) The system as claimed in claim 6, characterized in that wherein the preamble zones have components which are positive or negative depending on the tracks, and in that a circuit is provided configured makes it possible to detect the tracks with positive continuous components and those with negative continuous components.

Claim 8 (Currently Amended) The system as claimed in claim 7, eharacterized in that wherein the tracks of the recording medium are distributed in alternating groups of positive and negative components.

Claim 9 (Currently Amended) The system as claimed in claim 8, wherein characterized in that it comprises groups of four tracks of positive components which alternate with groups of four tracks of negative components comprise and in that is comprises:

[[-]] a first summation circuit (S1) adding configured to add the signs of the samples detected by a first group of four detectors (b0 to b3) and the inverse of the signs detected by a second group of four detectors (b4 to b7);

[[-]] a second addition circuit (S2) adding configured to add the signs of the samples detected by the first two detectors of the first group of detectors and the last two detectors of the second group and the inverse of the signs of the samples detected by the other detectors of these groups; and

[[-]] a table indicating the numbers of the tracks detected by said detectors according to the results of the additions carried out by the addition circuits.

Claim 10 (Currently Amended) A recording medium comprising several tracks recordable in parallel, each one comprising a preamble zone recorded or recordable in parallel, said zones containing data making it possible to locate the tracks one with respect to the others, wherein eharacterized in that the preamble zones contain data with nonzero continuous components, the tracks being distributed in groups of tracks containing data with positive continuous components which alternate with groups of tracks with negative continuous components.